



***Idaho Virtual University Consortium
Phase One — Current Status***

IT Infrastructure Comparative Profiles

***Prepared for Presidents and Chief Academic Officers
Idaho State Board of Education
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1. BOISE STATE UNIVERSITY

Infrastructure Table

Your Institution's Name: Boise State University
 Prepared by: David E. O'Neill
 Date Prepared: December 15, 1999

Please provide a brief narrative description in the following table of your hardware, software, or other support of the distance education categories listed.

| Category | Hardware | Software | Other |
|--|------------------|---------------|-------|
| | | | |
| Courses listings available for Distance Education Registration | HP LH4 (NT) | Adobe Acrobat | |
| | | | |
| Course Catalog | HP LH4 (NT) | Adobe Acrobat | |
| | | | |
| Admission Requirements and Procedures | IBM RS6000 (AIX) | PeopleSoft | |
| | | | |
| Financial Aid Requirements and Procedures | IBM RS6000 (AIX) | PeopleSoft | |
| | | | |
| Registration and Fee Payment | IBM RS6000 (AIX) | PeopleSoft | |

Other BSU Infrastructure information (if applicable and readily available)

- ◆ Connectivity, networking, bandwidth
- ◆ Administrative support hardware, software, connectivity, etc.
- ◆ Services support hardware, software, connectivity, etc.
- ◆ On- and off-campus course delivery support, hardware, software, connectivity, etc.
- ◆ Authentication, security, etc.
- ◆ Support capabilities for staff, faculty, students use and application of relevant technologies

2. COLLEGE OF SOUTHERN IDAHO

Infrastructure Table

Your Institution's Name: College of Southern Idaho
 Prepared by: Jerry Beck, Vice President of Instruction
 Date Prepared: 12/21/99

Please provide a brief narrative description in the following table of your hardware, software, or other support of the distance education categories listed.

| Category | Hardware | Software | Other |
|---|--|---|---|
| Courses available for Distance Education Registration | We currently do not have registration available via Internet; however, personnel at our three off campus centers have the ability to register students via the Internet. | Access Teams Elite via CSI website for our three off-campus centers personnel only. | Two additional centers on-line FY2000 at Jerome, Idaho and Micron Technologies, Inc. |
| Course Catalog | PC NT Server | any web browser | |
| Admission Requirements and Procedures | PC NT Server | Teams Elite (in house) | |
| Financial Aid Requirements and Procedures | PC NT Server | EdE Powerfaids (in house) add-on software to Teams Elite | NOTE – Students cannot apply for financial aid or access status information from our website. |
| Registration and Fee Payment | Not currently available Anticipated for FY2000 | | |

Other CSI infrastructure information (if applicable and readily available)

- ◆ **Connectivity, networking, bandwidth**
- ◆ **Administrative support hardware, software, connectivity, etc.**
- ◆ **Services support hardware, software, connectivity, etc.**
- ◆ **On- and off-campus course delivery support, hardware, software, connectivity, etc.**
- ◆ **Authentication, security, etc.**
- ◆ **Support capabilities for staff, faculty, students use and application of relevant technologies**

3. EASTERN IDAHO TECHNICAL COLLEGE

Infrastructure Table

Your Institution's Name: Eastern Idaho Technical College
 Prepared by: Luke Robins & Kelly Cox
 Date Prepared: 01/13/0

Please provide a brief narrative description in the following table of your hardware, software, or other support of the distance education categories listed.

| Category | Hardware | Software | Other |
|---|---|---|---|
| Courses available for Distance Education Registration | NA | NA | Course listings available on college web site and in schedule; no on-line registration currently available. |
| Course Catalog | Compaq, Prosignia 300, 120mHz Pentium 98 Mb RAM, 4 Gb SCSI HD | Windows NT Server 4.0 w/sp 5 Allaire Cold Fusion 4.0 | Abridged catalog available on-line; complete catalog information by Fall 2000. |
| Admission Requirements and Procedures | | | Available Fall 2000 |
| Financial Aid Requirements and Procedures | | | Available on-line |
| Registration and Fee Payment | NA | NA | Information available on-line Fall 2000; actual registration and fee payment not currently available. |

Other EITC infrastructure information (if applicable and readily available)

Connectivity, networking, bandwidth

1.4 MB/s Frame relay

2GB Backbone

100 MB/s Full-duplex Ethernet

Cisco routers and switches with Cisco IOS

Administrative support hardware, software, connectivity, etc.

Standard NT 4.0 features

Standard Cold Fusion with Allaire Homesite

Services support hardware, software, connectivity, etc.

Same as above

On- and off-campus course delivery support, hardware, software, connectivity, etc.

Phone numbers for tech support are posted on web

Authentication, security, etc.

- ◆ No student or prospective student authentication at this time
- ◆ Standard NT 4.0 security features and procedures are employed

Support capabilities for staff, faculty, students use and application of relevant technologies

Two computer/network technicians, one Distance Learning Center technician, and one instructional technology specialist provide support for staff, faculty and students.

4. IDAHO STATE UNIVERSITY

Infrastructure Table

| Category | Hardware | Software | Other |
|---|---|--|---|
| Courses available for Distance Education Registration | | | The published schedule of classes for a given semester lists on-campus courses and then courses available in other locations. It does not list separately the courses that are Distance Education or Technology Delivered. It does identify courses that have been designated as "web courses" but there are many inaccuracies. Information about web core offerings is more accurate on the website. |
| Course Catalog | | The Undergraduate and Graduate course catalogs appear in both print and digital versions. Neither is kept in database format. The printed catalogs are generated in Adobe PageMaker. The Web-based versions appear in both HTML and Adobe PDF formats. | The course Catalogs (both undergraduate and graduate) are printed once each year. The corresponding online versions get more frequent updates. |
| Admission requirements and procedures | Web Server: HP9000, HP/UX (CWIS) Admins database: Older HP MPE OS (HP 1). | Netscape Enterprise on Web Server (CWIS) Database and manager: IMAGE, Powerhouse on HP1. | Admission requirements are standard. Enrollment is "open" for Idaho residents. Currently students can apply for admission online. |
| Financial Aid Requirements and Procedures | Web Server: HP9000, HP/UX (CWIS) Admin database: Older HP MPE OS (HP 1) | | Financial aid maintains a website but applications and other support is through paper. |
| | | | |

| Category | Hardware | Software | Other |
|------------------------------|----------|--|--|
| Registration and Fee Payment | | Phone Registration: Fee Paymern: papers | Plans are afoot to port the telephone registration process to a web-base one. This is expected to be operational by Fall 2000. |

Other ISU Infrastructure Information (if applicable and readily available)

Connectivity, networking, bandwidth

See the Idanet Report data from ISU

Administrative support hardware, software, connectivity, etc.

NA

Services support hardware, software, connectivity, etc.

Students, faculty and staff have available a web-based interface with portions of the Administrative database. Students can access their records, print unofficial transcripts and obtain similar services. Faculty can have similar access to student record information as well as class lists and certain other administrative data.

On- and off-campus course delivery support, hardware, software, connectivity, etc.

A production server exists for live and archived Real/Media streaming. We are connected and can broadcast to and from the Albertson's IP video rooms. We are currently connected to IPTV's analog microwave system. Twenty-two compressed video classrooms statewide (adherence to accepted international standards for compatibility). This involves 12 different sites, 8 rural high schools and facilities in Pocatello, Idaho Falls, Twin Falls and Boise. There is also access to similar facilities maintained by other state institutions. We can and do connect with other locations worldwide on a regular basis. For example, on Arabic instruction course is currently being delivered to five (?) other universities nationwide. We deliver a PharmD (Doctor of Pharmacy) degree via videotape. Web courses and Web assistance?

Authentication, security, etc.

Access to RealMedia streaming services is password protected as well as is WebCT online classes. Compressed and IP video is "closed circuit".

Support capabilities for staff, faculty, students use, and application of relevant technologies

5. LEWIS-CLARK STATE COLLEGE

Your Institution's Name: Lewis-Clark State College

Prepared by:

Date Prepared: 12/17/99

Infrastructure table

| Categories | Hardware | Software | Other |
|---|--|---|---------------------------|
| Courses available for Distance Education Registration | NT Server ISDN Bridge and ISDN CODECS (four on LCSC's campus) | WebCT and FrontPage MCS Workstation and Advanced Scheduler | |
| | | | |
| Course Catalog | | | Web access |
| | | | |
| Admission Requirements and Procedures | IBM RS6000 | Datatel Colleague | Designated outreach sites |
| | | | |
| Financial Aid requirements and Procedures | IBM RS6000 | Datatel Colleague | Designated outreach sites |
| | | | |
| Registration and Fee Payment | IBM RS6000 | Datatel Colleague | Designated outreach sites |

Other LCSC Infrastructure Information

Connectivity, networking, bandwidth

Web courses are accessed via the campus T1 Internet connection. As our bandwidth usage increases, we are evaluating additional bandwidth to the Internet to aid support of web-based courses and full-text database delivery. Our compressed video is supported via 3 PRI T1 circuits. Each outreach center connects to services via dedicated circuits or dial-up through a local ISP.

Administrative support hardware, software, software, connectivity

LCSC has an IBM RS6000, which houses our Datatel Colleague software for our student and financial integrated system. We are currently undergoing an upgrade of the Datatel software which will help realize web access for students, faculty and staff, providing web registration, advising, transcription inquiry and other services. Current connectivity to the administrative support software is through terminal emulation software.

On-/off campus course delivery support, hardware, software, connectivity

The campus network OS is Microsoft NT. We have an NT server with IIS for our web server. We also have a WebCT server for WebCT delivered courses. Our LAN is Ethernet based with a 100Mbps backbone and 10Mbps shared to the desktop. Most outreach sites are connected through our WAN, a series of dedicated circuits, providing access to the Internet and other internal applications.

Security and Authentication are controlled through the NT WINS Authentication. Web courses are controlled by logins created at the faculty/course level. Some of our outreach sites gain access to student and financial information through VPN, until web access becomes available.

Support capabilities for staff, faculty, student use, and application of relevant technologies

Training for faculty, staff and students is offered through many offices but particularly through our Educational Technology Center and the Multimedia Development Lab.

6. NORTHERN IDAHO COLLEGE

Your Institution's Name: Northern Idaho College

Prepared by: Tom Lyons?

Date Prepared: 12/20/99

Please provide a brief narrative description in the following table of your hardware, software, or other support of the distance education categories listed.

Infrastructure Table

| Category | Hardware | Software | Other |
|---|----------|----------|-------|
| | | | |
| Courses available for Distance Education Registration | | | |
| | | | |
| Course Catalog | | | |
| | | | |
| Admission Requirements and Procedures | | | |
| | | | |
| Financial Aid Requirements and Procedures | | | |
| | | | |
| Registration and Fee Payment | | | |

Other NIC infrastructure information (if applicable and readily available)

Connectivity, networking, bandwidth

Internet

- ◆ DNS as www.nic.edu
- ◆ ISP is Verio NW
- ◆ Courses served from Unix and Windows NT servers running WebCT and FrontPage respectively
- ◆ Bandwidth for IP is T-1

IVC (Interactive Video Conferencing)

- 5 local, independent dial up sites and 11 regional high schools for North Idaho Information Network — an open, dial-up network;
- ◆ all HS sites served by PRI to Ascend IMUX and V-Tel T-series CODECs.
- ◆ NIC campus served as same but by 2 PRI and 5 T-1s for point-to-point and multiway videoconferencing support.
- ◆ Dial-up ISDN provided by ATT and facilitated by local voice/data providers, mainly GTE
- ◆ Multiway conferencing supported by Lucent MCU operating at H.320 standards; 24 site capacity, 96 site potential; 23 audio-only conference points may be integrated; Quad-screen (continuous presence) support in any conference; T.120 Multiway data conferencing supported by IBM server running Microsoft NetMeeting software.

Administrative support hardware, software, connectivity, etc.

Hardware: HP-3000 and Novell PC servers

Software: HP Unix and Novell Netware/Group Wise (including WebMail); DataTel financial

Connectivity: Fiber-optic 100-MB Ethernet LAN; IP

Services support hardware, software, connectivity, etc.

Hardware: HP-3000 and Novell PC servers

Software: HP Unix and Novell Netware/GroupWise (including WebMail; IRIS-Link student info sys, Action Request HelpDesk Database

Connectivity: Fiber-optic 100-MB Ethernet LAN; IP

On- and off-campus course delivery support, hardware, software, connectivity, etc.

Hardware: H-P multiprocessor servers for UNIX and Windows NT

Software: HP Unix/Apache Server/WebCT and WinNT/FrontPage 98/2000

Connectivity: IP

Authentication, security, etc.

- ◆ Standard firewall for IP/E-mail services. Course servers outside firewall. Password only access to online courses.
- ◆ Commercial level security not supported at this time. Online registration, bookstore e-commerce, etc. By Fall 2000 will put security measures in place.

Support capabilities for staff, faculty, students use and application of relevant technologies

Staff use: Internet — Computer Services HelpDesk; DE mentors, staff ID

Faculty use: Internet — DE Support Services website, Instructional Designer, Help Desk

Staff use: IVC — DE Mentors, DE staff video engineer

Faculty use: IVC — ft ICTL DE IVC trainer holds individual and group workshops, ft DE staff IVC Manager, pt DE classroom facilitators; ft DE staff Video Engineer

Student use Internet — DE Support Services website, DESSS coordinator, HelpDesk

Application of relevant technologies: Professional Development Office

7. UNIVERSITY OF IDAHO

Your Institution's Name: University of Idaho
 Prepared by: Judy McPherson for Vice Provost, Dr. Glenn Wilde
 Date Prepared: 12/22/99

Infrastructure Table

| Category | Hardware | Software | Other |
|---|--|-------------------|-------|
| Courses available for Distance Education Registration | CLR Radiance & V TEL Hardware Communicating over ISDN Lines and SDI | SCT Web Banner | |
| Course Catalog | Web http://www.uidaho.edu | SCT Web Banner | |
| Admission Requirements and Procedures | Web http://www.uidaho.edu | SCT Web Banner | |
| Financial Aid Requirements and Procedures | Web http://www.uidaho.edu | SCT Web Banner | |
| Registration and Fee Payment | Web http://www.uidaho.edu | SCT Web Banner | |

Other UI infrastructure information (if applicable and readily available)

- ◆ Connectivity, networking, bandwidth
- ◆ Administrative support hardware, software, connectivity, etc.
- ◆ Services support hardware, software, connectivity, etc.
- ◆ On- and off-campus course delivery support, hardware, software, connectivity, etc.
- ◆ Authentication, security, etc.
- ◆ Support capabilities for staff, faculty, students use and application of relevant technologies

8. IDAHO PUBLIC TELEVISION

Your Institution's Name: Idaho Public Television
 Prepared by: Gens Johnson
 Date Prepared: December 20, 1999

Please provide a brief narrative description in the following table of your hardware, software, or other support of the distance education categories listed.

| Category | Hardware | Software | Other |
|---|---|---|-------|
| Courses available for Distance Education Registration | Satellite receivers, routers, tape and virtual recorders, system automation computers, inter-city microwave system, and terrestrial television broadcast system (including 5 transmitters and 34 translators- providing information delivery to 95%+ of the homes in Idaho) | NT-OS computer and control systems, NTSC television signal (soon to also offer ATSC Digital TV signal). | |
| Course Catalog | Links to university provided information from our idahoptv.org web site. Links to video-streamed segments for students to examine prior to registration. Web hardware includes our NT-based web server, and 3 NT-based video/audio streaming servers. | NT- OS, Real streaming software | |
| Admission Requirements and Procedures | | | |
| Financial Aid Requirements and Procedures | | | |
| Registration and Fee Payment | | | |

Other IPTV infrastructure information (if applicable and readily available)

- ◆ Connectivity, networking, bandwidth
- ◆ Administrative support hardware, software, connectivity, etc.
- ◆ Services support hardware, software, connectivity, etc.
- ◆ On- and off-campus course delivery support, hardware, software, connectivity, etc.
- ◆ Authentication, security, etc.
- ◆ Support capabilities for staff, faculty, students use and application of relevant technologies